

CLAIMS

1. A monolithic ceramic electronic component comprising:  
a first element portion comprising a laminate of ceramic layers and internal electrodes; and  
a second element portion comprising a laminate of ceramic layers and internal electrodes,  
wherein at least the first element portion and the second element portion are stacked to form a ceramic laminate, and the porosity of the ceramic layers of the first element portion is different from the porosity of the ceramic layers of the second element portion.
2. The monolithic ceramic electronic component according to Claim 1, wherein the first element portion contains a first coil formed by electrically connecting the internal electrodes, the second element portion contains a second coil formed by electrically connecting the internal electrodes, and the first coil and the second coil are electrically connected to form an inductor.
3. The monolithic ceramic electronic component according to Claim 1, wherein the first element portion contains a coil formed by electrically connecting the internal electrodes, the second element portion contains a capacitor in which any two adjacent electrodes are separated by a ceramic layer, the porosity of the ceramic layers of the second element portion is lower than the porosity of the

ceramic layers of the first element portion, and the coil and the capacitor are electrically connected to form an LC filter.

4. The monolithic ceramic electronic component according to any one of Claims 1, 2, and 3, wherein the ceramic layer of the first element portion and the ceramic layer of the second element portion comprise the same ceramic material.

5. A method for making a monolithic ceramic electronic component comprising:

stacking ceramic layers and internal electrodes to form a first element portion;

stacking ceramic layers and internal electrodes to form a second element portion; and

stacking at least the first element portion and the second element portion to form a ceramic laminate,

wherein the amount of a granular evaporative pore-forming agent incorporated into a ceramic slurry for forming the ceramic layers of the first element portion is set different from the amount of the granular evaporative pore-forming agent incorporated into a ceramic slurry for forming the ceramic layers of the second element portion so that the first element portion and the second element portion have different porosities of ceramic layers.

6. The method for making the monolithic ceramic electronic component according to Claim 5, wherein either

the ceramic slurry for forming the ceramic layers of the first element portion or the ceramic slurry for forming the ceramic layers of the second element portion is not incorporated with the granular evaporative pore-forming agent.

7. The method for making the monolithic ceramic electronic component according to either Claim 5 or 6, wherein the ceramic slurry for forming the ceramic layers of the first element portion and the ceramic slurry for forming the ceramic layers of the second element portion comprise the same ceramic material.